2004 Author Index

Armstrong, C	Weight reduction methodologies for a thrust reverser cascade using aerodynamic and structural integration	301–313
Azzam, H	Indirect approaches to individual aircraft structural monitoring	329–346
Balakrishnan, S N	Control of the wing rock motion using a new suboptimal control method	257–266
Bendiksen, O O	Modern developments in computational aeroelasticity	157–177
Bharani, S	Effect of angle-of-turn on the performance of divided intake ducts	23–31
Bismarck-Nasr, M N	On the methodology of fitting design	279–286
Bonello, P	The prediction of the non-linear dynamics of a squeeze-film damped aero-engine rotor housed in a flexible support structure	213–230
Boni, L	Development of analytical methods for fuselage design: validation by means of finite element analyses	315–327
Brennan, M J	The prediction of the non-linear dynamics of a squeeze-film damped aero-engine rotor housed in a flexible support structure	213–230
Butterfield, J	Weight reduction methodologies for a thrust reverser cascade using aerodynamic and structural integration	301–313
Caligiana, G	Multiobjective wing design using genetic algorithms and fuzzy logic	133–145
Cao, Y	Numerical analysis of the airfoil flow fields and transonic blade – vortex interaction noise	125–131
Chahl, J S	An overview of insect-inspired guidance for application in ground and airborne platforms	375–388
Chandramouli, R	Effect of angle-of-turn on the performance of divided intake ducts	23–31
Circi, C	Hybrid methods and Q-guidance for rocket performance optimization	353–359
Clements, J	A spacecraft attitude stabilization system with low-power magnetic torquers	99–109
Cooper, J E	Force appropriation for flight flutter testing	189–198
Crowther, W J	Rule-based guidance for flight vehicle flocking	111–124
Cunningham, P R	A review of analytical methods for aircraft structures subjected to high-intensity random acoustic loads	231–242
Desforges, M J	Force appropriation for flight flutter testing	189–198
Ellery, A	An engineering approach to the dynamic control of space robotic on-orbit servicers	79–98
Ewins, D J	State-of-the-art dynamic analysis for non-linear gas turbine structures	199–211
Fanteria, D	Development of analytical methods for fuselage design: validation by means of finite element analyses	315–327
Frulla, G	Aeroelastic behaviour of a solar-powered high-altitude long endurance unmanned air vehicle (HALE-UAV) slender wing	179–188
Galinski, C	Some aeromechanical aspects of insect-like flapping wings in hover	389–398
Garratt, M	An overview of insect-inspired guidance for application in ground and airborne platforms	375–388
Gras, R	Teeth clearance effects upon pressure and film thickness in a trochoidal hydrostatic gear pump	247–256
Holmes, R	The prediction of the non-linear dynamics of a squeeze-film damped aero-engine rotor housed in a flexible support structure	213–230
Humphreys, B	Liquid anti-contamination systems for hybrid laminar flow control aircraft – a review of the critical issues and important experimental results	267–277
Ibrahim, J S	Deformation analysis of aircraft wheels using a speckle shearing interferometer	287–295
Jian, L	The predicitve models of maintenance costs for a civil airplane	347–351
Kadebek, D	A spacecraft attitude stabilization system with low-power magnetic torquers	99–109
Kang, P	Numerical analysis of the airfoil flow fields and transonic blade – vortex interaction noise	125–131
Kim, J	Decentralized approach to unmanned aerial vehicle navigation: without the use of the global positioning system and preloaded maps	399–416
King, R L	Non-linear simulation of coupled rotor – fuselage response using symbolically derived equations of motion. Part 1: derivation	1–9
King, R L	Non-linear simulation of coupled rotor – fuselage response using symbolically derived equations of motion. Part 2: confirmation and illustrative cases	11–22
Knowles, K	Some aeromechanical aspects of insect-like flapping wings in hover	389–398
Lawson, N J	The application of laser measurement techniques to aerospace flows	33–57
Li, X	Numerical analysis of the airfoil flow fields and transonic blade – vortex interaction noise	125–131

© IMechE 2003

Marczi, T	Effect of number of ribs and spar load ratio on the wing mass for light aircraft	147–156
Mathioudakis, K	Probabilistic neural networks for validation of on-board jet engine data	59–72
Mentch, D	A spacecraft attitude stabilization system with low-power magnetic torquers	99–109
Michelson, R C	Novel approaches to miniature flight platforms	363–373
Nettleton, E	Decentralized approach to unmanned aerial vehicle navigation: without the use of the global positioning system and preloaded maps	399–416
Newman, S	Indirect approaches to individual aircraft structural monitoring	329–346
Ong, L-L	Decentralized approach to unmanned aerial vehicle navigation: without the use of the global positioning system and preloaded maps	399–416
Paffoni, B	Teeth clearance effects upon pressure and film thickness in a trochoidal hydrostatic gear pump	247–256
Pedersen, C B	Some aeromechanical aspects of insect-like flapping wings in hover	389–398
Persiani, F	Multiobjective wing design using genetic algorithms and fuzzy logic	133–145
Petrov, E P	State-of-the-art dynamic analysis for non-linear gas turbine structures	199–211
Petzing, J N	Deformation analysis of aircraft wheels using a speckle shearing interferometer	287–295
Pinto, R R	On the methodology of fitting design	279–286
Polites, M	A spacecraft attitude stabilization system with low-power magnetic torquers	99–109
Price, M	Weight reduction methodologies for a thrust reverser cascade using aerodynamic and structural integration	301–313
Progri, R	Teeth clearance effects upon pressure and film thickness in a trochoidal hydrostatic gear pump	247–256
Quarles, C	A spacecraft attitude stabilization system with low-power magnetic torquers	99–109
Raghunathan, S	Weight reduction methodologies for a thrust reverser cascade using aerodynamic and structural integration	301–313
Robinson, C S	Non-linear simulation of coupled rotor – fuselage response using symbolically derived equations of motion. Part 1: derivation	1–9
Robinson, C S	Non-linear simulation of coupled rotor – fuselage response using symbolically derived equations of motion. Part 2: confirmation and illustrative cases	11–22
Romessis, C	Probabilistic neural networks for validation of on-board jet engine data	59–72
Saggiani, G M	Multiobjective wing design using genetic algorithms and fuzzy logic	133–145
Seshadri, V	Effect of angle-of-turn on the performance of divided intake ducts	23–31
Singh, S N	Effect of angle-of-turn on the performance of divided intake ducts	23–31
Smreck, L	Effect of number of ribs and spar load ratio on the wing mass for light aircraft	147–156
Srinivasan, M V	An overview of insect-inspired guidance for application in ground and airborne platforms	375–388
Stange, G	An overview of insect-inspired guidance for application in ground and airborne platforms	375–388
Stone, R H	The T-wing tail-sitter unmanned air vehicle: from design concept to research flight vehicle	417–433
Sukkarieh, S	Decentralized approach to unmanned aerial vehicle navigation: without the use of the global positioning system and preloaded maps	399–416
Tyrer, J R	Deformation analysis of aircraft wheels using a speckle shearing interferometer	287–295
Wallace, M	Indirect approaches to individual aircraft structural monitoring	329–346
White, R G	A review of analytical methods for aircraft structures subjected to high-intensity random acoustic loads	231–242
Wood, E R	Non-linear simulation of coupled rotor – fuselage response using symbolically derived equations of motion. Part 1: derivation	1–9
Wood, E R	Non-linear simulation of coupled rotor – fuselage response using symbolically derived equations of motion. Part 2: confirmation and illustrative cases	11–22
Wright, J R	Force appropriation for flight flutter testing	189–198
Xin, M	Control of the wing rock motion using a new suboptimal control method	257–266
Yao, H	Weight reduction methodologies for a thrust reverser cascade using aerodynamic and structural integration	301–313
Young, T M	Liquid anti-contamination systems for hybrid laminar flow control aircraft – a review of the critical issues and important experimental results	267–277
Żbikowski, R	Some aeromechanical aspects of insect-like flapping wings in hover	389–398
Zhang, S W	An overview of insect-inspired guidance for application in ground and airborne platforms	375–388
Zuo, H-F	The predictive models of maintenance costs for a civil airplane	347–351

© IMechE 2003